

CHAPTER 23 EMISSION STANDARDS FOR CONTAMINANTS

[Prior to 7/1/83, DEQ Ch 4]

[Prior to 12/3/86, Water, Air and Waste Management[900]]

567—23.1(455B) Emission standards.

23.1(1) *In general.* The federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in subrule 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in subrule 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in subrule 23.1(4). The federal emission guidelines (emission guidelines) shall be applicable as specified in subrule 23.1(5). Compliance with emission standards specified elsewhere in this chapter shall be in accordance with 567—Chapter 21.

23.1(2) *New source performance standards.* The federal standards of performance for new stationary sources, as defined in 40 Code of Federal Regulations Part 60 as amended or corrected through November 24, 1998, and 40 CFR Part 503 as adopted on October 25, 1995, are adopted by reference, except § 60.530 through § 60.539b, and shall apply to the following affected facilities. The corresponding 40 CFR Part 60 subpart designation is in parentheses. Reference test methods (Appendix A), performance specifications (Appendix B), determination of emission rate change (Appendix C), quality assurance procedures (Appendix F) and the general provisions (Subpart A) of 40 CFR Part 60 also apply to the affected facilities.

a. Fossil fuel-fired steam generators. A fossil fuel-fired steam generating unit of more than 250 million Btu heat input for which construction, reconstruction, or modification is commenced after August 17, 1971. Any facility covered under paragraph “z” is not covered under this paragraph. (Subpart D)

b. Incinerators. An incinerator of more than 50 tons per day charging rate. (Subpart E)

c. Portland cement plants. Any of the following in a Portland cement plant: kiln; clinker cooler; raw mill system; finish mill system; raw mill dryer; raw material storage; clinker storage; finished product storage; conveyor transfer points; bagging and bulk loading and unloading systems. (Subpart F)

d. Nitric acid plants. A nitric acid production unit. (Subpart G)

e. Sulfuric acid plants. A sulfuric acid production unit. (Subpart H)

f. Asphalt concrete plants. An asphalt concrete plant. (Subpart I)

g. Petroleum refineries. Any of the following at a petroleum refinery: fluid catalytic cracking unit catalyst regenerator; fluid catalytic cracking unit incinerator-waste heat boilers; fuel gas combustion devices; and claus sulfur recovery plants greater than 20 long tons per day. (Subpart J)

h. Secondary lead smelters. Any of the following in a secondary lead smelter: pot furnaces of more than 250 kilograms (550 pounds) charging capacity; blast (cupola) furnaces; and reverberatory furnaces. (Subpart L)

i. Secondary brass and bronze ingot production plants. Any of the following at a secondary brass and bronze ingot production plant: reverberatory and electric furnaces of 1000/kilograms (2205 pounds) or greater production capacity and blast (cupola) furnaces of 250 kilograms per hour (550 pounds per hour) or greater production capacity. (Subpart M)

j. Iron and steel plants. A basic oxygen process furnace. (Subpart N)

k. Sewage treatment plants. An incinerator which burns the sludge produced by municipal sewage treatment plants. (Subpart O of 40 CFR 60 and Subpart E of 40 CFR 503.)

l. Steel plants. Either of the following at a steel plant: electric arc furnaces and dust-handling equipment, the construction, modification, or reconstruction of which commenced after October 21, 1974, and on or before August 17, 1983. (Subpart AA)

m. Primary copper smelters. Any of the following at a primary copper smelter: dryer, roaster, smelting furnace and copper converter. (Subpart P)

n. Primary zinc smelters. Either of the following at a primary zinc smelter: a roaster or a sintering machine. (Subpart Q)

o. Primary lead smelter. Any of the following at a primary lead smelter: sintering machine, sintering machine discharge end, blast furnace, dross reverberatory furnace, converter and electric smelting furnace. (Subpart R)

p. Primary aluminum reduction plants. Either of the following at a primary aluminum reduction plant: potroom groups and anode bake plants. (Subpart S)

q. Wet process phosphoric acid plants in the phosphate fertilizer industry. A wet process phosphoric acid plant, which includes any combination of the following: reactors, filters, evaporators and hotwells. (Subpart T)

r. Superphosphoric acid plants in the phosphate fertilizer industry. A superphosphoric acid plant which includes any combination of the following: evaporators, hotwells, acid sumps, and cooling tanks. (Subpart U)

s. Diammonium phosphate plants in the phosphate fertilizer industry. A granular diammonium phosphate plant which includes any combination of the following: reactors, granulators, dryers, coolers, screens and mills. (Subpart V)

t. Triple super phosphate plants in the phosphate fertilizer industry. A triple super phosphate plant which includes any combination of the following: mixers, curing belts (dens), reactors, granulators, dryers, cookers, screens, mills and facilities which store run-of-pile triple superphosphate. (Subpart W)

u. Granular triple superphosphate storage facilities in the phosphate fertilizer industry. A granular triple superphosphate storage facility which includes any combination of the following: storage or curing piles, conveyors, elevators, screens and mills. (Subpart X)

v. Coal preparation plants. Any of the following at a coal preparation plant which processes more than 200 tons per day: thermal dryers; pneumatic coal cleaning equipment (air tables); coal processing and conveying equipment (including breakers and crushers); coal storage systems; and coal transfer and loading systems. (Subpart Y)

w. Ferroalloy production. Any of the following: electric submerged arc furnaces which produce silicon metal, ferrosilicon, calcium silicon, silicomanganese zirconium, ferrochrome silicon, silvery iron, high-carbon ferrochrome, charge chrome, standard ferromanganese, silicomanganese, ferromanganese silicon, or calcium carbide; and dust-handling equipment. (Subpart Z)

x. Kraft pulp mills. Any of the following in a kraft pulp mill: digester system; brown stock washer system; multiple effect evaporator system; black liquor oxidation system; recovery furnace; smelt dissolving tank; lime kiln; and condensate stripper system. In pulp mills where kraft pulping is combined with neutral sulfite semichemical pulping, the provisions of the standard of performance are applicable when any portion of the material charged to an affected facility is produced by the kraft pulping operation. (Subpart BB)

y. Lime manufacturing plants. A rotary lime kiln or a lime hydrator used in the manufacture of lime at other than a kraft pulp mill. (Subpart HH)

z. Electric utility steam generating units. An electric utility steam generating unit that is capable of combusting more than 250 million Btus per hour (73 megawatts) heat input of fossil fuel for which construction or modification or reconstruction is commenced after September 18, 1978, or an electric utility combined cycle gas turbine that is capable of combusting more than 250 million Btus per hour (73 megawatts) heat input of fossil fuel in the steam generator. (Subpart Da)

aa. Stationary gas turbines. Any simple cycle gas turbine, regenerative cycle gas turbine or any gas turbine portion of a combined cycle steam/electric generating system that is not self-propelled. It may, however, be mounted on a vehicle for portability. (Subpart GG)

bb. Petroleum storage vessels. Unless exempted, any storage vessel for petroleum liquids for which the construction, reconstruction, or modification commenced after June 11, 1973, and prior to May 19, 1978, having a storage capacity greater than 151,412 liters (40,000 gallons). (Subpart K)

cc. Petroleum storage vessels. Unless exempted, any storage vessel for petroleum liquids for which the construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984, having a storage capacity greater than 151,416 liters (40,000 gallons). (Subpart Ka)

dd. Glass manufacturing plants. Any glass melting furnace. (Subpart CC)

ee. Automobile and light-duty truck surface coating operations at assembly plants. Any of the following in an automobile or light-duty truck assembly plant: prime coat operations, guide coat operations, and topcoat operations. (Subpart MM)

ff. Ammonium sulfate manufacture. Any of the following in the ammonium sulfate industry: ammonium sulfate dryers in the caprolactam by-product, synthetic, and coke oven by-product sectors of the industry. (Subpart PP)

gg. Surface coating of metal furniture. Any metal furniture surface coating operation in which organic coatings are applied. (Subpart EE)

hh. Lead-acid battery manufacturing plants. Any lead-acid battery manufacturing plant which uses any of the following: grid casting, paste mixing, three-process operation, lead oxide manufacturing, lead reclamation, other lead-emitting operations. (Subpart KK)

ii. Phosphate rock plants. Any phosphate rock plant which has a maximum plant production capacity greater than four tons per hour including the following: dryers, calciners, grinders, and ground rock handling and storage facilities, except those facilities producing or preparing phosphate rock solely for consumption in elemental phosphorus production. (Subpart NN)

jj. Graphic arts industry. Publication rotogravure printing. Any publication rotogravure printing press except proof presses. (Subpart QQ)

kk. Industrial surface coating — large appliances. Any surface coating operation in a large appliance surface coating line. (Subpart SS)

ll. Metal coil surface coating. Any of the following at a metal coil surface coating operation: prime coat operation, finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet-on-wet over the prime coat and both coatings are cured simultaneously. (Subpart TT)

mm. Asphalt processing and asphalt roofing manufacturing. Any saturator, mineral handling and storage facility at asphalt roofing plants; and any asphalt storage tank and any blowing still at asphalt processing plants, petroleum refineries, and asphalt roofing plants. (Subpart UU)

nn. Equipment leaks of VOC in the synthetic organic chemicals manufacturing industry. Any pumps, compressors, pressure relief devices, sampling systems, valves and lines which handle volatile organic compounds (VOC). (Subpart VV)

oo. Beverage can surface coating. Any beverage can surface coating lines for two-piece steel or aluminum containers in which soft drinks or beer are sold. (Subpart WW)

pp. Bulk gasoline terminals. The total of all loading racks at bulk gasoline terminals which deliver liquid product into gasoline tank trucks. (Subpart XX)

qq. Pressure sensitive tape and label surface coating operations. Any coating line used in the tape manufacture of pressure sensitive tape and label materials. (Subpart RR)

rr. Metallic mineral processing plants. Any ore processing and handling equipment. (Subpart LL)

ss. Synthetic fiber production facilities. Any solvent-spun synthetic fiber process that produces more than 500 megagrams of fiber per year. (Subpart HHH)

tt. Equipment leaks of VOC in petroleum refineries. A compressor and all equipment (defined in 40 CFR, Part 60.591) within a process unit for which the construction, reconstruction, or modification commenced after January 4, 1983. (Subpart GGG)

uu. Flexible vinyl and urethane coating and printing. Each rotogravure printing line used to print or coat flexible vinyl or urethane products. (Subpart FFF)

vv. Petroleum dry cleaners. Petroleum dry-cleaning plant with a total manufacturer's rated dryer capacity equal to or greater than 38 kilograms (84 pounds): petroleum solvent dry-cleaning dryers, washers, filters, stills, and settling tanks. (Subpart JJJ)

ww. Electric arc furnaces and argon-oxygen decarburization vessels constructed after August 17, 1983. Steel plants that produce carbon, alloy, or specialty steels: electric arc furnaces, argon-oxygen decarburization vessels, and dust-handling systems. (Subpart AAa)

xx. Wool fiberglass insulation manufacturing plants. Rotary spin wool fiberglass manufacturing line. (Subpart PPP)

yy. Iron and steel plants. Secondary emissions from basic oxygen process steelmaking facilities for which construction, reconstruction, or modification commenced after January 20, 1983. (Subpart Na)

zz. Equipment leaks of VOC from on-shore natural gas processing plants. A compressor and all equipment defined in 40 CFR, Part 60.631, unless exempted, for which construction, reconstruction, or modification commenced after January 20, 1984. (Subpart KKK)

aaa. On-shore natural gas processing: SO₂ emissions. Unless exempted, each sweetening unit and each sweetening unit followed by a sulfur recovery unit for which construction, reconstruction, or modification commenced after January 20, 1984. (Subpart LLL)

bbb. Nonmetallic mineral processing plants. Unless exempted, each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or rail car loading station in fixed or portable nonmetallic mineral processing plants for which construction, reconstruction, or modification commenced after August 31, 1983. (Subpart OOO)

ccc. Industrial-commercial-institutional steam generating units. Unless exempted, each steam generating unit for which construction, reconstruction, or modification commenced after June 19, 1984, and which has a heat input capacity of more than 100 million Btu/hour. (Subpart Db)

ddd. Volatile organic liquid storage vessels. Unless exempted, volatile organic liquid storage vessels for which construction, reconstruction, or modification commenced after July 23, 1984. (Subpart Kb)

eee. Rubber tire manufacturing plants. Unless exempted, each undertread cementing operation, each sidewall cementing operation, each tread end cementing operation, each bead cementing operation, each green tire spraying operation, each Michelin-A operation, each Michelin-B operation, and each Michelin-C automatic operation that commences construction or modification after January 20, 1983. (Subpart BBB)

fff. Industrial surface coating: surface coating of plastic parts for business machines. Each spray booth in which plastic parts for use in the manufacture of business machines receive prime coats, color coats, texture coats, or touch-up coats for which construction, modification, or reconstruction begins after January 8, 1986. (Subpart TTT)

ggg. VOC emissions from petroleum refinery wastewater systems. Each individual drain system, each oil-water separator, and each aggregate facility for which construction, modification or reconstruction is commenced after May 4, 1987. (Subpart QQQ)

hhh. Magnetic tape coating facilities. Unless exempted, each coating operation and each piece of coating mix preparation equipment for which construction, modification, or reconstruction is commenced after January 22, 1986. (Subpart SSS)

iii. Polymeric coating of supporting substrates. Unless exempted, each coating operation and any on-site coating mix preparation equipment used to prepare coatings for the polymeric coating of supporting substrates for which construction, modification, or reconstruction begins after April 30, 1987. (Subpart VVV)

jjj. VOC emissions from synthetic organic chemical manufacturing industry air oxidation unit processes. Unless exempted, any air oxidation reactor, air oxidation reactor and recovery system or combination of two or more reactors and the common recovery system used in the production of any of the chemicals listed in 40 CFR §60.617 for which construction, modification or reconstruction commenced after October 21, 1983. (Subpart III)

kkk. VOC emissions from synthetic organic chemical manufacturing industry distillation operations. Unless exempted, any distillation unit, distillation unit and recovery system or combination of two or more distillation units and the common recovery system used in the production of any of the chemicals listed in 40 CFR §60.667 for which construction, modification or reconstruction commenced after December 30, 1983. (Subpart NNN)

lll. Small industrial-commercial-institutional steam generating units. Each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989, and that has a maximum design heat input capacity of 100 million Btu per hour or less, but greater than or equal to 10 million Btu per hour. (Subpart Dc)

mmm. VOC emissions from the polymer manufacturing industry. Each of the following process sections in the manufacture of polypropylene and polyethylene—raw materials preparation, polymerization reaction, material recovery, product finishing, and product storage; each material recovery section of polystyrene manufacturing using a continuous process; each polymerization reaction section of poly(ethylene terephthalate) manufacturing using a continuous process; each material recovery section of poly(ethylene terephthalate) manufacturing using a continuous process that uses dimethyl terephthalate; each raw material section of poly(ethylene terephthalate) manufacturing using a continuous process that uses terephthalic acid; and each group of fugitive emissions equipment within any process unit in the manufacturing of polypropylene, polyethylene, or polystyrene (including expandable polystyrene). The applicability date for construction, modification or reconstruction for polystyrene and poly(ethylene terephthalate) affected facilities and some polypropylene and polyethylene affected facilities is September 30, 1987. For the other polypropylene and polyethylene affected facilities the applicability date for these regulations is January 10, 1989. (Subpart DDD)

nnn. Municipal waste combustors. Unless exempted, a municipal waste combustor with a capacity greater than 225 megagrams per day of municipal solid waste for which construction is commenced after December 20, 1989, and on or before September 20, 1994, and modification or reconstruction is commenced after December 20, 1989, and on or before June 19, 1996. (Subpart Ea)

ooo. Grain elevators. A grain terminal elevator or any grain storage elevator except as provided under 40 CFR 60.304(b), August 31, 1993. A grain terminal elevator means any grain elevator which has a permanent storage capacity of more than 2.5 million U.S. bushels except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots. A grain storage elevator means any grain elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant which has a permanent grain storage capacity of 1 million bushels. Any construction, modification, or reconstruction after August 3, 1978, is subject to this paragraph. (Subpart DD)

ppp. Mineral processing plants. Each calciner and dryer at a mineral processing plant unless excluded for which construction, modification, or reconstruction is commenced after April 23, 1986. (Subpart UUU)

qqq. VOC emissions from synthetic organic chemical manufacturing industry reactor processes. Unless exempted, each affected facility that is part of a process unit that produces any of the chemicals listed in 40 CFR §60.707 as a product, coproduct, by-product, or intermediate for which construction, modification, or reconstruction commenced after June 29, 1990. Affected facility is each reactor process not discharging its vent stream into a recovery system, each combination of a reactor process and the recovery system into which its vent stream is discharged, or each combination of two or more reactor processes and the common recovery system into which their vent streams are discharged. (Subpart RRR)

rrr. Municipal solid waste landfills, as defined by 40 CFR 60.751. Each municipal solid waste landfill that commenced construction, reconstruction or modification or began accepting waste on or after May 30, 1991, must comply. (Subpart WWW)

sss. Municipal waste combustors. Unless exempted, a municipal waste combustor with a capacity greater than 35 megagrams per day of municipal solid waste for which construction is completed after September 20, 1994, or for which modification or reconstruction is commenced after June 19, 1996. (Subpart Eb)

ttt. Hospital/medical/infectious waste incinerators. Unless exempted, a hospital/medical/infectious waste incinerator for which construction is commenced after June 20, 1996, or for which modification is commenced after March 16, 1998. (Subpart Ec)

23.1(3) Emission standards for hazardous air pollutants. The federal standards for emissions of hazardous air pollutants, 40 Code of Federal Regulations Part 61 as amended through October 14, 1997, are adopted by reference, except 40 CFR §61.20 to §61.26, §61.90 to §61.97, §61.100 to §61.108, §61.120 to §61.127, §61.190 to §61.193, §61.200 to §61.205, §61.220 to §61.225, and §61.250 to §61.256, and shall apply to the following affected pollutants and facilities and activities listed below. The corresponding 40 CFR Part 61 subpart designation is in parentheses. Reference test methods (Appendix B), compliance status information requirements (Appendix A), quality assurance procedures (Appendix C) and the general provisions (Subpart A) of Part 61 also apply to the affected activities or facilities.

a. Asbestos. Any of the following involves asbestos emissions: asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications and demolition and renovation operations. (Subpart M)

b. Beryllium. Any of the following stationary sources: beryllium extraction plants, ceramic plants, foundries, incinerators, and propellant plants which process beryllium ore, beryllium oxide, beryllium alloys, or beryllium-containing waste; and machine shops which process beryllium, beryllium oxides, or any alloy when such alloy contains more than 5 percent beryllium by weight. (Subpart C)

c. Beryllium rocket motor firing. Rocket motor test sites. (Subpart D)

d. Mercury. Any of the following involving mercury emissions: mercury ore processing facilities, mercury cell chlor-alkali plants, sludge incineration plants, sludge drying plants, and a combination of sludge incineration plants and sludge drying plants. (Subpart E)

e. Vinyl chloride. Ethylene dichloride purification and the oxychlorination reactor in ethylene dichloride plants. Vinyl chloride formation and purification in vinyl chloride plants. Any of the following involving polyvinyl chloride plants: reactor; stripper; mixing, weighing, and holding containers; monomer recovery system; sources following the stripper(s). Any of the following involving ethylene dichloride, vinyl chloride, and polyvinyl chloride plants: relief valve discharge; fugitive emission sources. (Subpart F)

f. Equipment leaks of benzene (fugitive emission sources). Any pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, flanges and other connectors, product accumulator vessels, and control devices or systems which handle benzene. (Subpart J)

g. Equipment leaks of volatile hazardous air pollutants (fugitive emission sources). Any pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, flanges and other connectors, product accumulator vessels, and control devices or systems which handle volatile hazardous air pollutants. (Subpart V)

h. Inorganic arsenic emissions from arsenic trioxide and metallic arsenic production facilities. Each metallic arsenic production plant and each arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process. (Subpart P)

i. Inorganic arsenic emissions from glass manufacturing plants. Each glass melting furnace (except pot furnaces) that uses commercial arsenic as a raw material. (Subpart N)

j. Inorganic arsenic emissions from primary copper smelters. Each copper converter at any new or existing primary copper smelter except as noted in 40 CFR §61.172(a). (Subpart O)

k. Benzene emissions from coke by-product recovery plants. Each of the following sources at furnace and foundry coke by-product recovery plants: tar decanters, tar storage tanks, tar-intercepting sumps, flushing-liquor circulation tanks, light-oil sumps, light-oil condensers, light-oil decanters, wash-oil decanters, wash-oil circulation tanks, naphthalene processing, final coolers, final-cooler cooling towers, and the following equipment that is intended to operate in benzene service: pumps, valves, exhausters, pressure relief devices, sampling connection systems, open-ended valves or lines, flanges or other connectors, and control devices or systems required by 40 CFR §61.135.

The provisions of this subpart also apply to benzene storage tanks, BTX storage tanks, light-oil storage tanks, and excess ammonia-liquor storage tanks at furnace coke by-product recovery plants. (Subpart L)

l. Benzene emissions from benzene storage vessels. Unless exempted, each storage vessel that is storing benzene having a specific gravity within the range of specific gravities specified in ASTM D 836-84 for Industrial Grade Benzene, ASTM D 835-85 for Refined Benzene-485, ASTM D 2359-85a for Refined Benzene-535, and ASTM D 4734-87 for Refined Benzene-545. These specifications are incorporated by reference as specified in 40 CFR §61.18. (Subpart Y)

m. Benzene emissions from benzene transfer operations. Unless exempted, the total of all loading racks at which benzene is loaded into tank trucks, rail cars, or marine vessels at each benzene production facility and each bulk terminal. (Subpart BB)

n. Benzene waste operations. Unless exempted, the provisions of this subrule apply to owners and operators of chemical manufacturing plants, coke by-product recovery plants, petroleum refineries, and facilities at which waste management units are used to treat, store, or dispose of waste generated by any of these listed facilities. (Subpart FF)

23.1(4) Emission standards for hazardous air pollutants for source categories. The federal standards for emissions of hazardous air pollutants for source categories, 40 Code of Federal Regulations Part 63 as amended through December 28, 1998, are adopted by reference, except 40 CFR §§ 63.6(g) and (h)(9), 63.7(e)(2)(ii) and (f), 63.8(f), 63.10(f), 63.12, 63.14, 63.15, 63.40(a), 63.42(a), (b), 63.43(c), (f)-(m), 63.560 (b), (e) (2), (3), and 63.562 (c), (d), and shall apply to the following affected facilities. The corresponding 40 CFR Part 63 Subpart designation is in parentheses. 40 CFR Part 63 Subpart B incorporates the requirements of Clean Air Act Sections 112(g) and 112(j) and does not adopt standards for a specific affected facility. Test methods (Appendix A), sources defined for early reduction provisions (Appendix B), and determination of the fraction biodegraded (F_{bio}) in the biological treatment unit (Appendix C) of Part 63 also apply to the affected activities or facilities. For the purpose of this subrule, “hazardous air pollutant” has the same meaning found in 567—22.100(455B). For the purposes of this subrule, a “major source” means any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants, unless a lesser quantity is established, or in the case of radionuclides, where different criteria are employed. For the purposes of this subrule an “area source” means any stationary source of hazardous air pollutants that is not a major stationary source as defined in this paragraph. Paragraph 23.1(4) “a,” general provisions (Subpart A) of Part 63, shall apply to owners or operators who are subject to subsequent subparts of 40 CFR 63 (except when otherwise specified in a particular subpart or in a relevant standard) as adopted by reference below.

a. General provisions. General provisions apply to owners or operators of affected activities or facilities except when otherwise specified in a particular subpart or in a relevant standard. (Subpart A)

b. Requirements for control technology determinations for major sources in accordance with Clean Air Act Sections 112(g) and 112(j). (Subpart B)

(1) Section 112(g) requirements. For the purposes of this subparagraph, the definitions shall be the same as the definitions found in 40 CFR 63.2 and 40 CFR 63.41 as amended through December 27, 1996. The owner or operator of a new or reconstructed major source of hazardous air pollutants must apply maximum achievable control technology (MACT) for new sources to the new or reconstructed major source. If the major source in question has been specifically regulated or exempted from regulation under a standard issued pursuant to Section 112(d), Section 112(h), or Section 112(j) of the Clean Air Act and incorporated in another subpart of 40 CFR Part 63, excluded in 40 CFR 63.40(e) and (f), or the owner or operator of such major source has received all necessary air quality permits for such construction or reconstruction project before June 29, 1998, then the major source in question is not subject to the requirements of this subparagraph. The owner or operator of an affected source shall apply for a construction permit as required in 567—paragraph 22.1(1) “b.” The construction permit application shall contain an application for a case-by-case MACT determination for the major source.

(2) Section 112(j) requirements. The owner or operator of a new or existing major source of hazardous air pollutants which includes one or more stationary sources included in a source category or subcategory for which the U.S. Environmental Protection Agency has failed to promulgate an emission standard within 18 months of the deadline established under 112(d) must submit an application for a Title V permit or an application for a significant permit modification or for an administrative amendment, whichever is applicable. The application must be made in accordance with procedures established under Title V, by the Section 112(j) deadline. In addition, the owner or operator of a new emission unit may submit an application for a Notice of MACT Approval before construction.

c. Reserved.

d. Compliance extensions for early reductions of hazardous air pollutants. Compliance extensions for early reductions of hazardous air pollutants are available to certain owners or operators of an existing source who wish to obtain a compliance extension from a standard issued under Section 112(d) of the Act. (Subpart D)

e. Reserved.

f. Emission standards for organic hazardous air pollutants from the synthetic chemical manufacturing industry. These standards apply to chemical manufacturing process units that are part of a major source. These standards include applicability provisions, definitions and other general provisions that are applicable to Subparts F, G, and H of 40 CFR 63. (Subpart F)

g. Emission standards for organic hazardous air pollutants from the synthetic organic chemical manufacturing industry for process vents, storage vessels, transfer operations, and wastewater. These standards apply to all process vents, storage vessels, transfer racks, and wastewater streams within a source subject to Subpart F of 40 CFR 63. (Subpart G)

h. Emission standards for organic hazardous air pollutants for equipment leaks. These standards apply to emissions of designated organic hazardous air pollutants from specified processes that are located at a plant site that is a major source. Affected equipment includes: pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, instrumentation systems and control devices or systems required by this subpart that are intended to operate in organic hazardous air pollutant service 300 hours or more during the calendar year within a source subject to the provisions of a specific subpart in 40 CFR Part 63. In organic hazardous air pollutant or in organic HAP service means that a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 5 percent by weight of total organic HAPs as determined according to the provisions of 40 CFR Part 63.161. The provisions of 40 CFR Part 63.161 also specify how to determine that a piece of equipment is not in organic HAP service. (Subpart H)

i. Emission standards for organic hazardous air pollutants for certain processes subject to negotiated regulation for equipment leaks. These standards apply to emissions of designated organic hazardous air pollutants from specified processes (defined in 40 CFR 63.190) that are located at a plant site that is a major source. Subject equipment includes pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems at certain source categories. These standards establish the applicability of Subpart H for sources that are not classified as synthetic organic chemical manufacturing industries. (Subpart I)

j. Reserved.

k. Reserved.

l. Emission standards for coke oven batteries. These standards apply to existing coke oven batteries, including by-product and nonrecovery coke oven batteries and to new coke oven batteries, or as defined in the subpart. (Subpart L)

m. Perchloroethylene air emission standards for dry cleaning facilities. These standards apply to the owner or operator of each dry cleaning facility that uses perchloroethylene. New and existing major source dry cleaning facilities are required to control emissions to the level of the maximum achievable control technology (MACT). New and existing area source dry cleaning facilities are required to control emissions to the level achieved by generally available control technologies (GACT) or management practices. All coin-operated dry cleaning machines are exempt from the requirements of this subpart. (Subpart M)

n. Emission standards for chromium emissions from hard and decorative chromium electroplating and chromium anodizing tanks. These standards limit the discharge of chromium compound air emissions from existing and new hard chromium electroplating, decorative chromium electroplating, and chromium anodizing tanks at major and area sources. (Subpart N)

o. Emission standards for hazardous air pollutants for ethylene oxide commercial sterilization and fumigation operations. New and existing major source ethylene oxide commercial sterilization and fumigation operations are required to control emissions to the level of the maximum achievable control technology (MACT). New and existing area source ethylene oxide commercial sterilization and fumigation operations are required to control emissions to the level achieved by generally available control technologies (GACT). Certain sources are exempt as described in 40 CFR 63.360. (Subpart O)

p. *Emission standards for primary aluminum reduction plants.* These standards apply to each new or existing potline, paste production plant, or anode bake furnace associated with a primary aluminum reduction plant, and for each new pitch storage tank associated with a primary aluminum production plant, except existing furnaces not located on the same site as the primary aluminum reduction plant. (Subpart LL)

q. *Emission standards for hazardous air pollutants for industrial process cooling towers.* These standards apply to all new and existing industrial process cooling towers that are operated with chromium-based water treatment chemicals on or after September 8, 1994, and are either major sources or are integral parts of facilities that are major sources. (Subpart Q)

r. *Emission standards for hazardous air pollutants for sources categories: gasoline distribution: (Stage 1).* These standards apply to all existing and new bulk gasoline terminals and pipeline breakout stations that are major sources of hazardous air pollutants or are located at plant sites that are major sources. Bulk gasoline terminals and pipeline breakout stations located within a contiguous area or under common control with a refinery complying with 40 CFR Subpart CC are not subject to 40 CFR Subpart R standards. (Subpart R)

s. *Emission standards for hazardous air pollutants for pulp and paper (noncombustion).* These standards apply to pulping and bleaching process sources at kraft, soda, sulfite, and stand-alone semi-chemical pulp mills. Affected sources include pulp mills and integrated mills (mills that manufacture pulp and paper/paperboard) that chemically pulp wood fiber (using kraft, sulfite, soda, or semichemical methods); pulp secondary fiber; pulp nonwood fiber; and mechanically pulp wood fiber. (Subpart S)

t. *Emission standards for hazardous air pollutants: halogenated solvent cleaning.* These standards require batch vapor solvent cleaning machines and in-line solvent cleaning machines to meet emission standards reflecting the application of maximum achievable control technology (MACT) for major and area sources; area source batch cold cleaning machines are required to achieve generally available control technology (GACT). The subpart regulates the emissions of the following halogenated hazardous air pollutant solvents: methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, and chloroform. (Subpart T)

u. *Emission standards for hazardous air pollutants: Group I polymers and resins.* Applicable to existing and new major sources that emit organic HAP during the manufacture of one or more elastomers including but not limited to producers of butyl rubber, halobutyl rubber, epichlorohydrin elastomers, ethylene propylene rubber, Hypalon™, neoprene, nitrile butadiene rubber, nitrile butadiene latex, polybutadiene rubber/styrene butadiene rubber by solution, polysulfide rubber, styrene butadiene rubber by emulsion, and styrene butadiene latex. MACT is required for major sources. (Subpart U)

v. Reserved.

w. *Emission standards for hazardous air pollutants for epoxy resins production and nonnylon polyamides production.* These standards apply to all existing, new and reconstructed manufacturers of basic liquid epoxy resins and manufacturers of wet strength resins that are located at a plant site that is a major source. (Subpart W)

x. *National emission standards for hazardous air pollutants from secondary lead smelting.* These standards apply to all existing and new secondary lead smelters sources which use blast, reverberatory, rotary, or electric smelting furnaces for lead recovery of scrap lead that are located at major or area sources. The provisions apply to smelting furnaces, refining kettles, agglomerating furnaces, dryers, process fugitive sources, and fugitive dust. Excluded from the rule are primary lead smelters, lead refiners, and lead remelters. Hazardous air pollutants regulated under this standard include but are not limited to lead compounds, arsenic compounds, and 1,3-butadiene. (Subpart X)

y. *Emission standards for marine tank vessel loading operations.* This standard requires existing and new major sources to control emissions using maximum achievable control technology (MACT) to control hazardous air pollutants (HAP). (Subpart Y)

z. to ab. Reserved.